

SEQUENCE LISTING

The patent application contains a lengthy "Sequence Listing" section. A copy of the "Sequence Listing" is available in electronic form from the USPTO web site (<http://seqdata.uspto.gov/?pageRequest=docDetail&DocID=US20070026454A1>). An electronic copy of the "Sequence Listing" will also be available from the USPTO upon request and payment of the fee set forth in 37 CFR 1.19(b)(3).

1-32. (canceled)

33. An isolated nucleic acid molecule comprising a first polynucleotide sequence at least 95% identical to a second polynucleotide sequence selected from the group consisting of:

- (a) a polynucleotide fragment of SEQ ID NO:X as referenced in Table 1A;
- (b) a polynucleotide encoding a full length polypeptide of SEQ ID NO:Y or a full length polypeptide encoded by the cDNA Clone ID in ATCC Deposit No:Z corresponding to SEQ ID NO:Y as referenced in Table 1A;
- (c) a polynucleotide encoding a polypeptide fragment of SEQ ID NO:Y or a polypeptide fragment encoded by the cDNA Clone ID in ATCC Deposit No:Z corresponding to SEQ ID NO:Y as referenced in Table 1A;
- (d) a polynucleotide encoding a polypeptide fragment of SEQ ID NO:Y or a polypeptide fragment encoded by the cDNA Clone ID in ATCC Deposit No:Z corresponding to SEQ ID NO:Y as referenced in Table 1A, wherein said fragment has biological activity;
- (e) a polynucleotide encoding a polypeptide domain of SEQ ID NO:Y as referenced in Table 1B;
- (f) a polynucleotide encoding a polypeptide domain of SEQ ID NO:Y as referenced in Table 2;
- (g) a polynucleotide encoding a predicted epitope of SEQ ID NO:Y as referenced in Table 1B; and
- (h) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(g), wherein said polynucleotide does not hybridize under stringent conditions to a nucleic acid molecule having a nucleotide sequence of only A residues or of only T residues.

34. The isolated nucleic acid molecule of claim 33, wherein the polynucleotide fragment comprises a nucleotide sequence encoding a secreted form of SEQ ID NO:Y or a secreted form of the polypeptide encoded by the cDNA Clone ID in ATCC Deposit No:Z corresponding to SEQ ID NO:Y, as referenced in Table 1A.

35. The isolated nucleic acid molecule of claim 33, wherein the polynucleotide fragment comprises a nucleotide sequence encoding the sequence identified as SEQ ID NO:Y or the polypeptide encoded by the cDNA sequence included in ATCC Deposit No:Z, which is hybridizable to SEQ ID NO:X, as referenced in Table 1A.

36. The isolated nucleic acid molecule of claim 33, wherein the polynucleotide fragment comprises the entire nucleotide sequence of SEQ ID NO:X or the cDNA

sequence included in ATCC Deposit No:Z, which is hybridizable to SEQ ID NO:X, as referenced in Table 1A.

37. The isolated nucleic acid molecule of claim 34, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N-terminus.

38. The isolated nucleic acid molecule of claim 35, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N-terminus.

39. A recombinant vector comprising the isolated nucleic acid molecule of claim 33.

40. A method of making a recombinant host cell comprising the isolated nucleic acid molecule of claim 33.

41. A recombinant host cell produced by the method of claim 40.

42. The recombinant host cell of claim 41 comprising vector sequences.

43. A polypeptide comprising a first amino acid sequence at least 95% identical to a second amino acid sequence selected from the group consisting of:

- (a) a full length polypeptide of SEQ ID NO:Y or a full length polypeptide encoded by the cDNA Clone ID in ATCC Deposit No:Z corresponding to SEQ ID NO:Y as referenced in Table 1A;
- (b) a secreted form of SEQ ID NO:Y or a secreted form of the polypeptide encoded by the cDNA Clone ID in ATCC Deposit No:Z corresponding to SEQ ID NO:Y as referenced in Table 1A;
- (c) a polypeptide fragment of SEQ ID NO:Y or a polypeptide fragment encoded by the cDNA Clone ID in ATCC Deposit No:Z corresponding to SEQ ID NO:Y as referenced in Table 1A;
- (d) a polypeptide fragment of SEQ ID NO:Y or a polypeptide fragment encoded by the cDNA Clone ID in ATCC Deposit No:Z corresponding to SEQ ID NO:Y as referenced in Table 1A, wherein said fragment has biological activity;
- (e) a polypeptide domain of SEQ ID NO:Y as referenced in Table 1B;
- (f) a polypeptide domain of SEQ ID NO:Y as referenced in Table 2; and
- (g) a predicted epitope of SEQ ID NO:Y as referenced in Table 1B.

44. The polypeptide of claim 43, wherein said polypeptide comprises a heterologous amino acid sequence.